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7590 06/07/2004			EXAMINER	
Terry J. Stalford			FERGUSON, KEITH	
Baker Botts, L.				
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Dallas, TX 75201-2980			2683	2
			DATE MAILED: 06/07/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/839,832	CHOKSI, OJAS T.				
· Office Action Summary	Examiner	Art Unit				
• • • • • • • • • • • • • • • • • • •		2683				
The MAILING DATE of this communication a	Keith T. Ferguson					
Period for Reply	•	·				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  If the period for reply specified above is less than thirty (30) days, a re  If NO period for reply is specified above, the maximum statutory perio  Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. I.136(a). In no event, however, may a sply within the statutory minimum of thi d will apply and will expire SIX (6) MOI ute, cause the application to become A	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 19	April 2001.					
2a) ☐ This action is <b>FINAL</b> . 2b) ☐ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.	). 11, 453 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) 1-48 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are allowed.  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-48 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and.	rawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examir	ner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ ac						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the I	· · · · · · · · · · · · · · · · · · ·	• • •				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents.  2. Certified copies of the priority documents.  3. Copies of the certified copies of the priority documents.	nts have been received. nts have been received in A ionty documents have beer	Application No				
* See the attached detailed Office action for a lis	st of the certified copies not	: received.				
Attachment(s)	. 🗖					
<ul> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/O-Paper No(s)/Mail Date</li> </ul>	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) ·				

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## DETAILED ACTION

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-40,43,44 and 48 are rejected under 35
- U.S.C. 102(e) as being anticipated by Chang et al..

The claimed invention reads on Chang et al. as follows:

Regarding claim 1, Chang et al. discloses a method for detecting a wireless network (fig. 2 and col. 8 line 34 through col. 9 line 2), comprising: receiving at a mobile device a signal having data indicative of a location of the mobile device (col. 8 lines 27-40); determining whether the mobile device is within a coverage area of a specified network (private system) based on the data (col. 8 lines 27-50); and scanning (performing a search) for the specified network in response to at least determining that the mobile device is within the coverage area of the specified network (col. 8 lines 27-50).

Regarding claims 2,15 and 28, Chang et al. discloses the signal comprises a base station broadcast message (public system information) having a base station identifier (base station identifier contained within) (col. 6 lines 1-59), further comprising: extracting the base station identifier from the base station broadcast message (col. 6 lines 17-59); comparing

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(matching) the base station identifier to a listing of base station identifiers for base stations at least proximate to the specified network (i.e. a match between the broadcast public system information and that stored in the overlaying system table) (col. 6 lines 17-59); and scanning (attempts to locate) for the specified network in response to at least the base station identifier from the base station broadcast message matching one of the base station identifiers in the listing of base station identifiers (col. 6 lines 27-59).

Regarding claims 3,16 and 29, Chang et al. discloses the base station identifiers for the specified network are stored in a network table at the mobile device (col. 5 line 57 through col. 6 line 22).

Regarding claims 4,17 and 30, Chang et al. discloses a base station broadcast message having a latitude and longitude of the base station (col. 7 line 51 through col. 8 line 15), further comprising: extracting the latitude and longitude from the base station broadcast message (col. 7 line 51 through col. 8 line 15); comparing a location based on the latitude and longitude to the coverage area of the specified network (col. 7 line 51 through col. 8 line 15); and scanning (attempts to locate) for the specified network in response to at least the location being within the coverage area of the specified network (col. 7 line 51 through col. 8 line 15).

Regarding claims 5,8,18,21,31 and 34, Chang et al. discloses the coverage area is defined at the mobile device (i.e. the mobile device compares the broadcast information with in information stored within its memory) (col. 6 lines 17-59).

Regarding claims 6,9,19,22,32 and 35, Chang et al. discloses the coverage area is defined by at least a center (i.e. a base station within the center of the cell)(fig. 5 number 505), a shape (circle) (fig. 5 number 505) and dimensional information for the coverage area (fig. 5 LAT/LONG number 505).

Regarding claims 7,20 and 33, Chang et al. discloses a global positioning satellite (GPS) signal (inherent, when a mobile device detects a GPS signal, taught in col. 3 lines 29-

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36), further comprising: determining a location of the mobile device based on the GPS signal (col. 3 lines 29-36); comparing the location of the mobile device to the coverage area of the specified network (col. 5 line 57 through col. 6 line 59); and scanning (attempts to locate) for the specified network in response to at least the mobile device being within the coverage area of the specified network (col. 5 line 57 through col. 6 line 59).

Regarding claims 10,23 and 36, Chang et al. discloses the signal comprises a CDMA base station broadcast signal (col. 10 lines 11-35).

Regarding claims 11,24 and 37, Chang et al. discloses a preferred network for a user of the mobile device (col. 5 lines 18-21).

Regarding claims 12,25 and 38, Chang et al. discloses camping (i.e. attempt to register) onto the specified network if available (col. 5 lines 18-28 and col. 8 line 67 through col. 9 line 2).

Regarding claims 13,26 and 39, Chang et al. discloses determining whether the mobile device is within the coverage area of the specified network based on the data indicative of location and coverage data for the specified network corresponding in type to the data indicative of location (col. 5 line 57 through col. 6 line 59 and col.7 line 51 through 4).

Regarding claims 14 and 27, Chang et al. discloses a system for detecting a wireless network (fig. 1 and col. 8 line 34 through col. 9 line 2), comprising: means (logic operative to receive) for receiving at a mobile device a signal (logic encoded in media) having data indicative of a location of the mobile device (col. 8 lines 27-40); means for determining whether the mobile device is within a coverage area of a specified network (private system) based on the data (col. 8 lines 27-50); and means for scanning (performing a search) for the specified network in response to at least determining that the mobile device is within the coverage area of the specified network (col. 8 lines 27-50).

Regarding claim 40, Chang et al. discloses a method (fig. 2) for detecting a preferred (private) wireless network while

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camped onto an overlying macro (public system) network (fig. 1, col. 5 line 57 through col. 6 line 63 and col. 8 lines 40-55), comprising: receiving at a mobile device a base station broadcast message having a base station identifier (public system information) (col. 5 line 57 through col. 6 line 22); extracting a base station identifier from the base station broadcast message (col. 6 line 1-22); determining whether the mobile device is within a coverage area of a preferred network by comparing the base station identifier to a listing of base station identifiers for base stations at least proximate to the preferred network stored in a network table at the mobile device (col. 6 line 1-19); scanning (attempt to locate) for the preferred network in response to at least the base station identifier from the base station broadcast message matching one of the base station identifiers in the network table (col. 6 line 17-58); and camping onto the preferred network if available (col. 6 line 50-63). Chang et al. further discloses the mobile device camps onto the preferred network even if the mobile device is receiving signals from the overlying macro network (fig. 6 and col. 7 lines 42-47).

Regarding claim 43, Chang et al. discloses the base station identifier (col. 6 lines 1-22) is for a base station of the specified (private) network and the base station broadcast message is transmitted by a base station of a disparate network (public) (col. 6 lines 1-22).

Regarding claim 44, Chang et al. discloses the base station identifier (col. 6 lines 1-22) is for base station of a disparate (private) network and the base station broadcast message is transmitted by a base station of the disparate (public) network (col. 6 lines 1-22).

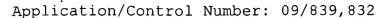
Regarding claim 48, Chang et al. discloses receiving at the mobile device the base station broadcast message having the base station identifier and a network identifier (SID) (col. 6 lines 1-22); extracting the network identifier (SID) from the base station broadcast message) (col. 6 lines 1-22; determining whether the mobile device is within the coverage area of the preferred (private) network by comparing the network identifier (SID) to a stored network identifier for the preferred network (col. 5 line 57 through col. 6 line 58); and scanning (attempt to locate) for the preferred network in response to at least a network identifier from the base station broadcast message matching the stored network identifier (col. 6 line 17-58).

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## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 41 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chang et al. in view of Seazholtz et al..

Regarding claims 41 and 42, Chang et al. discloses a method for detecting a preferred wireless network as discussed supra in claim 40 above. Chang et al. differs from claims 41 and 42 of the present invention in that it does not disclose the mobile device camps onto the preferred network if available so long as signals are received from the preferred network at a minimal signal strength, and the mobile device camps onto the preferred network even if the mobile device is receiving signals from the overlying macro network at a strength greater than that of signals from the preferred network. Seazholtz et al. teaches subscriber station selects a SID within its memory based upon a biasing process if available so long as signals are received from the preferred SID list at a minimal signal strength (col. 15 line 52 through col. 16 line 35), and the subscriber station selects the preferred SID even if receiving signals from other SIDS at a strength greater than that of signals from the preferred SID (col. 16 lines 20-35). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Chang et al. with the mobile device camps onto the preferred network if available so long as signals are received from the preferred network at a minimal signal strength, and the mobile device camps onto the preferred network



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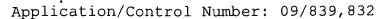
even if the mobile device is receiving signals from the overlying macro network at a strength greater than that of signals from the preferred network in order for the mobile device to receive cheaper rates when communicating in within the private network as long as the signal strength is good enough for reliable communication, as taught by Seazholtz et al..

5. Claim 45 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chang et al. in view of Yahagi.

Regarding claim 45, Chang et al. discloses a method for detecting a preferred wireless network as discussed supra in claim 40 above. Chang et al. differs from claim 45 of the present invention in that it does not disclose the base station identifier is automatically updated by the base station of the disparate network based on radio discovery. Yahagi teaches once a mobile station moves into a different area an update is made with a database of the new location and new base station within the system (col. 2 lines 1-9). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Chang et al. with the base station identifier is automatically updated by the base station of the disparate network based on radio discovery in order for the private network to provide services to the mobile device which may provide a cheaper rate for service, as taught by Yahagi.

6. Claims 46 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chang et al. in view of Ishida.

Regarding claim 46, Chang et al. discloses a method for detecting a preferred wireless network as discussed supra in claim 40 above. Chang et al. differs from claim 46 of the present invention in that it does not disclose backing off scanning after each scan and termination scanning for the specified network after a specified number of tries, and terminating the scan upon leaving the coverage area. Ishida teaches backing off scanning after each scan (col. 4 lines 16-24) and termination scanning after a specified number of tries (col. 4 lines 16-24). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made To modify Chang et al. with backing off scanning after each scan and termination scanning for the specified network after a



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specified number of tries, and terminating the scan upon leaving the coverage area in order for the radio telephone to save battery resources within by not continuing to scan a private system signal and to stop scanning the public system when a private system signal is found, as taught by Ishida.

7. Claim 47 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chang et al. in view of Brederveld et al..

Regarding claim 47, Chang et al. discloses a method for detecting a preferred wireless network as discussed supra in claim 40 above. Chang et al. differs from claim 47 of the present invention in that it does not disclose terminating the scan upon leaving the coverage area. Brederveld et al. teaches a mobile station that stops searching a previous base station when a candidate base station for handover signal is better (col. 4 line 54 through col. 5 line 20 and fig. 5a and fig. 5b number 124). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made To modify Chang et al. with terminating the scan upon leaving the coverage area in order for the radio telephone to be connected with the private system where air time is cheaper, as taught by Brederveld et al..

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Keith T. Ferguson whose telephone number is (703) 305-4888. The examiner can normally be reached on 6:30am-5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on (703) 308-5318. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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